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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|---|-----------------|----------------------|-------------------------|------------------|--|--|
| 10/643,461 | 08/18/2003 | Qi Xiang | 0180144 | 4140 | | |
| 25700 | 7590 03/21/2005 | | EXAM | EXAMINER | | |
| | & FARJAMI LLP | NGUYEN, | NGUYEN, JOSEPH H | | | |
| 26522 LA ALAMEDA AVENUE, SUITE 360 MISSION VIEJO, CA 92691 | | | ART UNIT | PAPER NUMBER | | |
| | , | | 2815 | | | |
| | | | DATE MAILED: 03/21/2003 | 5 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.



Advisory Action

| Application No. | Applicant(s) |
|-----------------|--------------|
| 10/643,461 | XIANG ET AL. |
| Examiner | Art Unit |
| Joseph Nguyen | |

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|--|--|--|--------------------------------|--|--|--|--|--|
| Before the Filing of an Appeal Brief | Examiner | Art Unit | | | | | | |
| | Joseph Nguyen | 2815 | | | | | | |
| The MAILING DATE of this communication appe | ars on the cover sheet with the c | correspondence add | ress | | | | | |
| THE REPLY FILED 11 March 2005 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. | | | | | | | | |
| The reply was filed after a final rejection, but prior to filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods: | | | | | | | | |
| The period for reply expiresmonths from the mailing date of the final rejection. | | | | | | | | |
| The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO | | | | | | | | |
| MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any example patent term adjustment. See 37 CFR 1.704(b). | | | | | | | | |
| 2. The reply was filed after the date of filing a Notice of App | eal, but prior to the date of filing a | n appeal brief. The No | otice of Appeal | | | | | |
| was filed on A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). AMENDMENTS | | | | | | | | |
| 3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will <u>not</u> be entered because | | | | | | | | |
| (a) They raise new issues that would require further consideration and/or search (see NOTE below); | | | | | | | | |
| (b) They raise the issue of new matter (see NOTE below); | | | | | | | | |
| (c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or | | | | | | | | |
| (d) They present additional claims without canceling a NOTE: (See 37 CFR 1.116 and 41.33(a)). | | jected claims. | | | | | | |
| 1. The amendments are not in compliance with 37 CFR 1. | 121. See attached Notice of Non-C | ompliant Amendmen | t (PTOL-324). | | | | | |
| Applicant's reply has overcome the following rejection(sNewly proposed or amended claim(s) would be a | | , timely filed amendn | nent canceling | | | | | |
| the non-allowable claim(s). 7. Tor purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is pro | | vill be entered and an | explanation of | | | | | |
| The status of the claim(s) is (or will be) as follows: | | | | | | | | |
| Claim(s) allowed: Claim(s) objected to: | | | | | | | | |
| Claim(s) rejected: | | | | | | | | |
| Claim(s) withdrawn from consideration: | | | | | | | | |
| AFFIDAVIT OR OTHER EVIDENCE 3. The affidavit or other evidence filed after a final action, b because applicant failed to provide a showing of good ar and was not earlier presented. See 37 CFR 1.116(e). | ut before or on the date of filing a find sufficient reasons why the affida | Notice of Appeal will vit or other evidence | not be entered is necessary | | | | | |
| The affidavit or other evidence filed after the date of filing | a Notice of Appeal, but prior to th | e date of filing a brief | f, will <u>not</u> be | | | | | |
| entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessar | overcome <u>all</u> rejections under appe ry and was not earlier presented. S | al and/or appellant fa See 37 CFR 41.33(d) | ails to provide a (1). | | | | | |
| 10. ☐ The affidavit or other evidence is entered. An explanation of the control of the contr | on of the status of the claims after | entry is below or atta | ched. | | | | | |
| The request for reconsideration has been considered by See the next page. | ut does NOT place the application | in condition for allowa | ance because: | | | | | |
| 2. Note the attached Information Disclosure Statement(s). (PTO/SB/08 or PTO-1449) Paper No(s). | | | | | | | | |
| 13. | | | | | | | | |
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Art Unit: 2815

Applicant argues that Kubo et al. fails to disclose "a first gate dielectric and a first gate electrode being selected such that a difference between the second coefficient of thermal expansion of the first gate electrode and the first coefficient of thermal expansion of the first gate dielectric causes an increase in carrier mobility in the FET". However, the coefficient of thermal expansion depends upon the material (see Exhibit A, Wolf et al). Since the first gate dielectric is made of silicon oxide and the first gate electrode made of polysilicon in Kubo et al., the second coefficient of thermal expansion of the first gate electrode is different from said first coefficient of thermal expansion of the first gate dielectric. Further, the phrase "causes an increase in carrier mobility in the FET" is merely functional language. The device of Kubo et al. would inherently cause an increase in carrier mobility due to the difference of coefficients of thermal expansion of polysilicon and silicon oxide. Lastly, the Wolf et al. reference is cited herein merely for providing a supporting evidence, not for being applied in the rejection. Therefore, the finality of the Office Action is proper

J.N.

ALLAN R. WILSON PRIMARY EXAMINER